

A0005CLAIMS

1. A bituminous composition, comprising a bituminous component and a block copolymer,
wherein the block copolymer comprises at least two
5 terminal poly(vinyl aromatic) blocks and at least one poly(conjugated diene) central block, wherein said poly(conjugated diene) central block(s) is (are) obtained by substantially random copolymerization of butadiene and isoprene in a molar ratio between butadiene and isoprene
10 in the range of from 1:2 to 9:1;
wherein the poly(vinyl aromatic) content (PSC) is in the range of from 20 to 30 wt%,
wherein the content of a possibly accompanying diblock,
comprising a poly(vinyl aromatic) block and a
15 poly(butadiene/isoprene) block is at most 25 mole%,
wherein the 1,2-addition (vinyl content) of the polymerized conjugated dienes is in the range of from 10 to 80%, and
wherein the apparent molecular weight of the complete
20 block copolymer is in the range of 310,000 to 380,000.
2. A bituminous composition as claimed in claim 1,
wherein the block copolymer comprises butadiene and isoprene in a molar ratio between butadiene and isoprene in the range of from 2:3 to 6:1, and more preferably from
25 1:1 to 3:1.
3. A bituminous composition as claimed in claim 1 or 2,
wherein the diblock content of the block copolymer is in the range of 0 to 15 mole%.

4. A bituminous composition as claimed in any one of claims 1 to 3, wherein the vinyl content of the block copolymer is in the range of from 30 to 60%.

5. A bituminous composition as claimed in any one of claims 1 to 4, wherein the apparent molecular weight of the entire block copolymer is in the range of from 315,000 to 375,000.

10. A bituminous composition as claimed in any one of claims 1 to 5, wherein the block copolymer is present in the bituminous composition in an amount in the range of from 3 to 30% by weight.

15. A bituminous composition as claimed in any one of claims 1 to 5, wherein the block copolymer is present in the bituminous composition in an amount in the range of from 6 to 15% by weight.

8. A bituminous composition as claimed in any one of claims 1 to 7, further comprising fillers or resins, oils, stabilisers or flame retardants in an amount in the range of from 0 to 40% by weight.